BLOOMFIELD®
Koffee-King™

MODULAR BREWING SYSTEMS

611

OPERATION MANUAL
includes:
USE and CARE
MAINTENANCE INSTRUCTIONS
and
PARTS LIST

DOMESTIC MODEL NOS.

POUR OVER UNITS	AUTOMATIC UNITS	AUTOMATIC UNITS WITH FAUCET
8542	8541	8540
8543	8573	8572
8571		8574

BLOOMFIELD® Industries
2 Erik Circle, P.O.Box 280
Verdi, Nevada 89439
telephone (888) 492-2782
fax (888) 492-2783
www.Wellsbloomfield.corn

SERVICE TRAINING - QUALITY SERVICE
Genuine Parts
Protect - YOU - All - Ways
CUSTOMER SATISFACTION

p/n 74568 Rev. B M610 082300 cps

LIMITED WARRANTY STATEMENT

All electrical equipment manufactured by BLOOMFIELD INDUSTRIES is warranted against defects in materials and workmanship for a period of one year from the date of original installation or eighteen (18) months from the date of shipment from our factory, whichever comes first, and is for the benefit of the original purchaser, except that:
a. airpots carry a 30day parts warranty only. b. dispensers; i.e., tea and coffee carry a 90 days parts warranty only, excludes decanters.

THIS WARRANTY IS THE COMPLETEAND ONLY WARRANTY, EXPRESSED OR IMPLIED IN LAW OR IN FACT, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND/OR FOR DIRECT, INDIRECT OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH BLOOMFIELD INDUSTRIES PRODUCTS.

This warranty is void if it is determined that upon inspection by an Authorized Service Agency that the equipment has bee modified, misused, misapplied, improperly installed, or damaged in transit or by fire, flood oractofGod.

It also does not apply if the serial nameplate has been removed or service is performed by unauthorized personnel. The prices charged by Bloomfield Industries for its products are based upon the limitations in this warranty. Seller's obligation under this warranty is limited to the repair of defects without charge by a Bloomfield IndustriesAuthorized ServiceAgency or one of its sub-service agencies. This service will be provided on customer's premises for non-portable models. Portable models (a device with a cord and plug) must be taken or shipped to the closestAuthorized ServiceAgency, transportation charges prepaid for services.

In addition to restriction contained in this warranty, specific limitations are shown below (Additional Warranty Exclusions).

Bloomfield Industries Authorized Service Agencies are located in prindpal cities. This warranty is valid in the United States and void elsewhere. Please consult your classified telephone directory, your foodservice equipment dealer or for information and other details concerning warranty write to:
Service Parts Department, Bloomfield Industries, P.O. Box 280 Verdi, NV 89439 Phone: (888) 492-2782 Fax: (888) 492-2783

SERVICE POLICY AND PROCEDURE GUIDE
ADDITIONAL WARRANTY EXCLUSIONS

1. Resetting the safety thermostats, circuit breakers, overload protectors, or fuse replacements unless warranted conditions are the cause.
2. All problems due to operation at voltage other than specified on equipment nameplates conversion to correct voltage must be the customer's responsibility.
3. All problems due to electrical connections not made in accordance with electrical code requirement and wiring diagrams supplied with the equipment.
4. Replacement of items subject to normal wear, to include such items as knobs and light bulbs. Normal maintenance functions including adjustments of thermostats, microswitches, and replacement of fuses and indicating lights are not covered under warranty.
5. All problems due to inadequate water supply, such as fluctuating, high or low water pressure, etc.
6. All problems due to mineral/calcium deposits, or contamination from chlorides/chlorines. De-liming is considered a preventative maintenance function and not covered by warranty.
7. Full use, care and maintenance instructions are supplied with each machine. Those miscellaneous adjustments noted are customer responsibility. Proper attention will prolong the life of the machine.
8. Travel mileage is limited to **sixty (60) miles** from an Authorized Service Agency or one of its sub-service agencies.
9. All labor shall be performed during normal working hours. Overtime premium will be charged to customer.
10. All genuine Bloomfield replacement parts are warranted for ninety (90) days from date of purchase on non-warranty equipment. **Any use of non-genuine Bloomfield parts completely voids any warranty.**
11. Installation, labor, and job check-outs are not considered warranty.
12. Charges incurred by delays, waiting time or operating restrictions that hinder the service technician's ability to perform service are not covered by warranty. This includes institutional and correctional facilities.

SHIPPING DAMAGE CLAIM PROCEDURE

NOTE: For your protection, please note that equipment in this shipment was carefully inspected and packaged by skilled personnel prior to leaving the factory. Upon acceptance of this shipment, the transportation company assumes full responsibility for its safe delivery. **IF SHIPMENT ARRIVES DAMAGED:**

1. **VISIBLE LOSS OR DAMAGE:** Be certain that any visible loss or damage is noted on the freight bill or express receipt, and that the note of loss or damage is signed by the delivery person.
2. **FILE CLAIM FOR DAMAGE IMMEDIATELY:** Regardless of the extent of damage.
3. **CONCEALED LOSS OR DAMAGE:** If damage is unnoticed until the merchandise is opened, notify the transportation company or carrier immediately, and file a "CONCEALED DAMAGE" claim with them. This should be done within fifteen (15) days from the date the delivery was made to you. Be sure to retain the container for inspection.

Wells manufacturing cannot assume liability for damage or loss incurred in transit. We will, however, at your request, supply you with the necessary documents to support your claim.

TABLE OF CONTENTS

Warranty	Inside Cover
Specifications	1
Features and Operating Controls	
Old Style Solenoid	2
New Style Solenoid	4
Installation Instructions	6
Brewing Coffee	7
Servicing Instructions	
Temperature Adjustment	8
Timing Adjustment	8
Water Flow Diagram	9
Wiring Diagrams	10
Trouble Shooting	12
Exploded Views/ Parts Lists	
Hot Water Tank Assembly	13
Cabinet & Related Components	14
Electrical Components	16
Internal Plumbing Components	17

SPECIFICATIONS

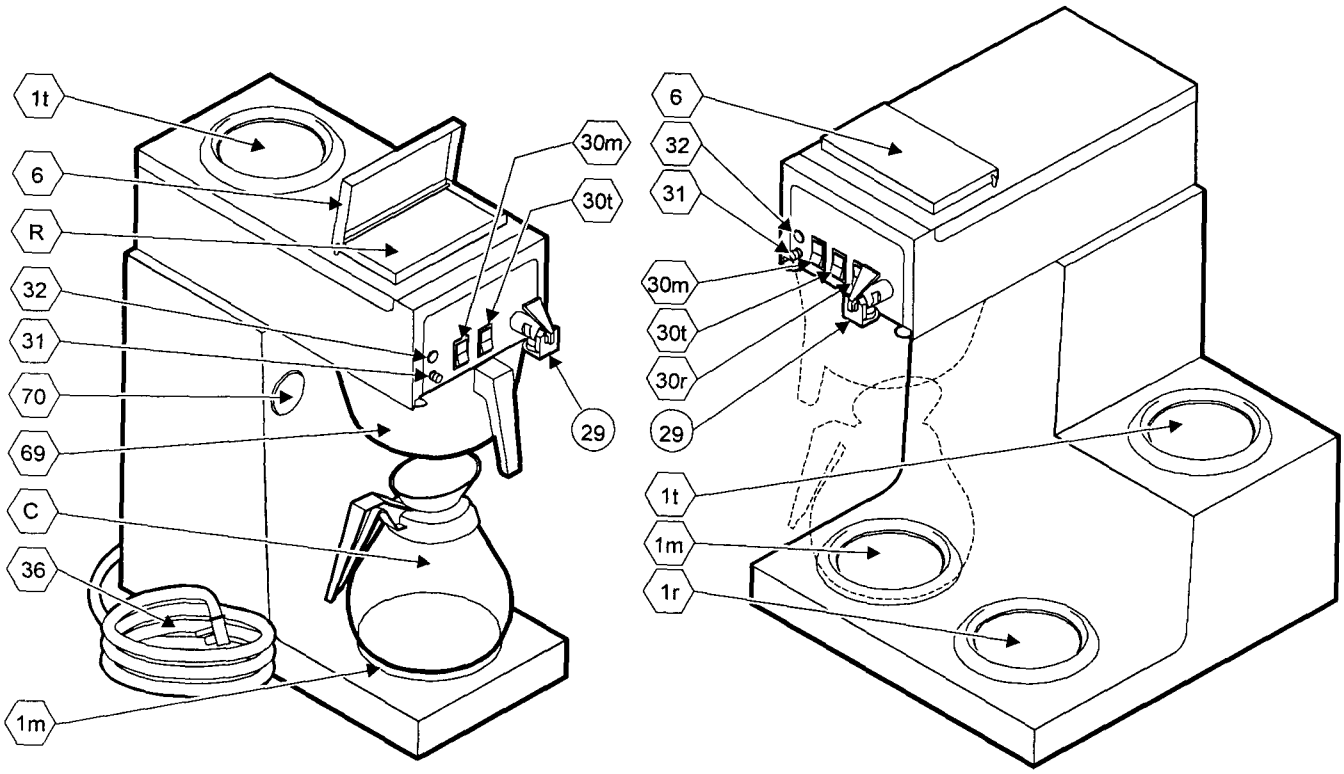
MODEL	CONFIGURATION	WARMERS	FAUCET	VOLT/WATTAGE
8540	In-Line, Automatic, Plumbed-In	2	YES	120V/1700W
8541	In-Line, Automatic, Plumbed-In	2	NO	120V/1700W
8542	In-Line, Pour-Over	1	NO	120V/1600W
8543	In-Line, Pour-Over	2	NO	120V/1700W
8571	3-Station, Pour-Over	3	NO	120V/1800W
8572	3-Station, Automatic, Plumbed-In	3	YES	120V/1800W
8573	3-Station, Automatic, Plumbed-In	3	NO	120V/1800W
8574	3-Station, Automatic, Plumbed-In	3	YES	115/230V/3800W

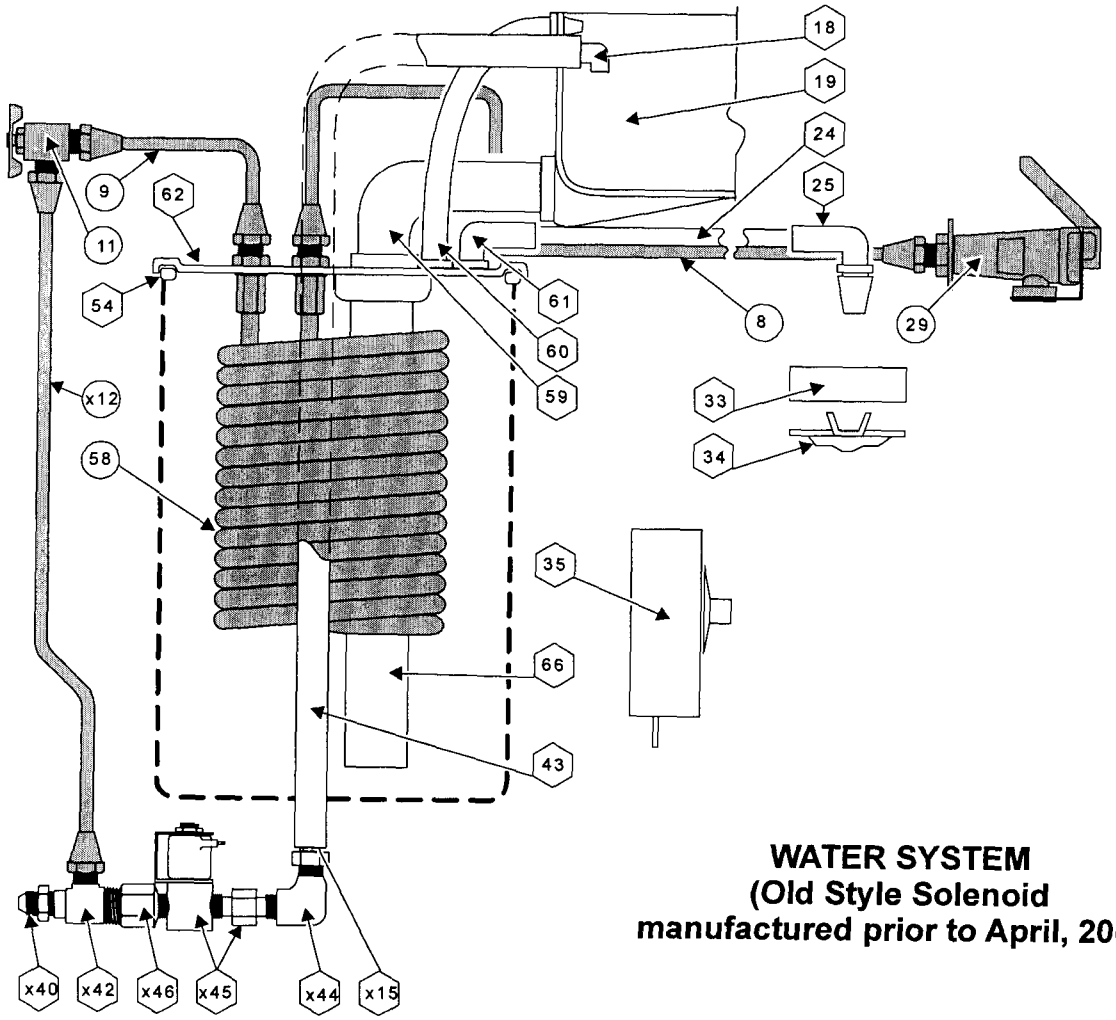
In this manual, brewers manufactured prior to March, 2000 will be identified as "old-style solenoid". Such brewers were manufactured with a metal-bodied solenoid.

Brewers manufactured from March, 2000 will be identified as "new style solenoid". Such brewers are manufactured with a nylon-bodied solenoid having either: a single controlled outlet; or, a single controlled outlet and a straight-thru (bypass) outlet.

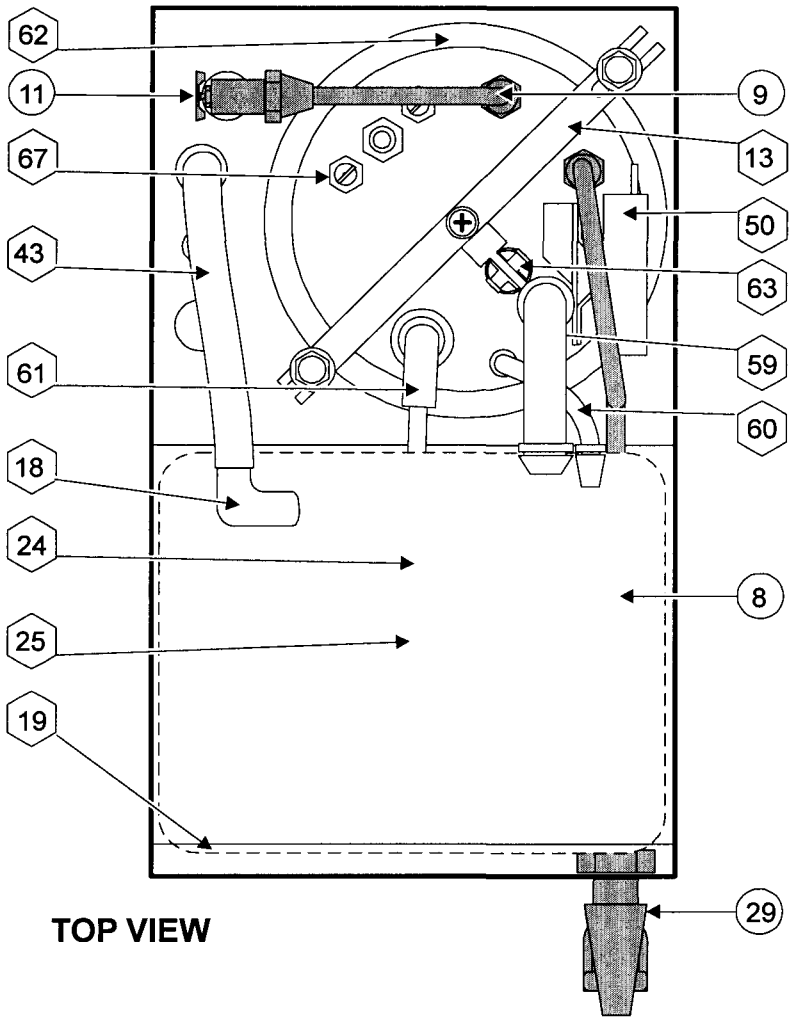
Unless otherwise noted, all drawings and procedures in this manual refer to brewers with the new style solenoid.

OPERATING FEATURES AND CONTROLS





WATER SYSTEM
(Old Style Solenoid manufactured prior to April, 2000)



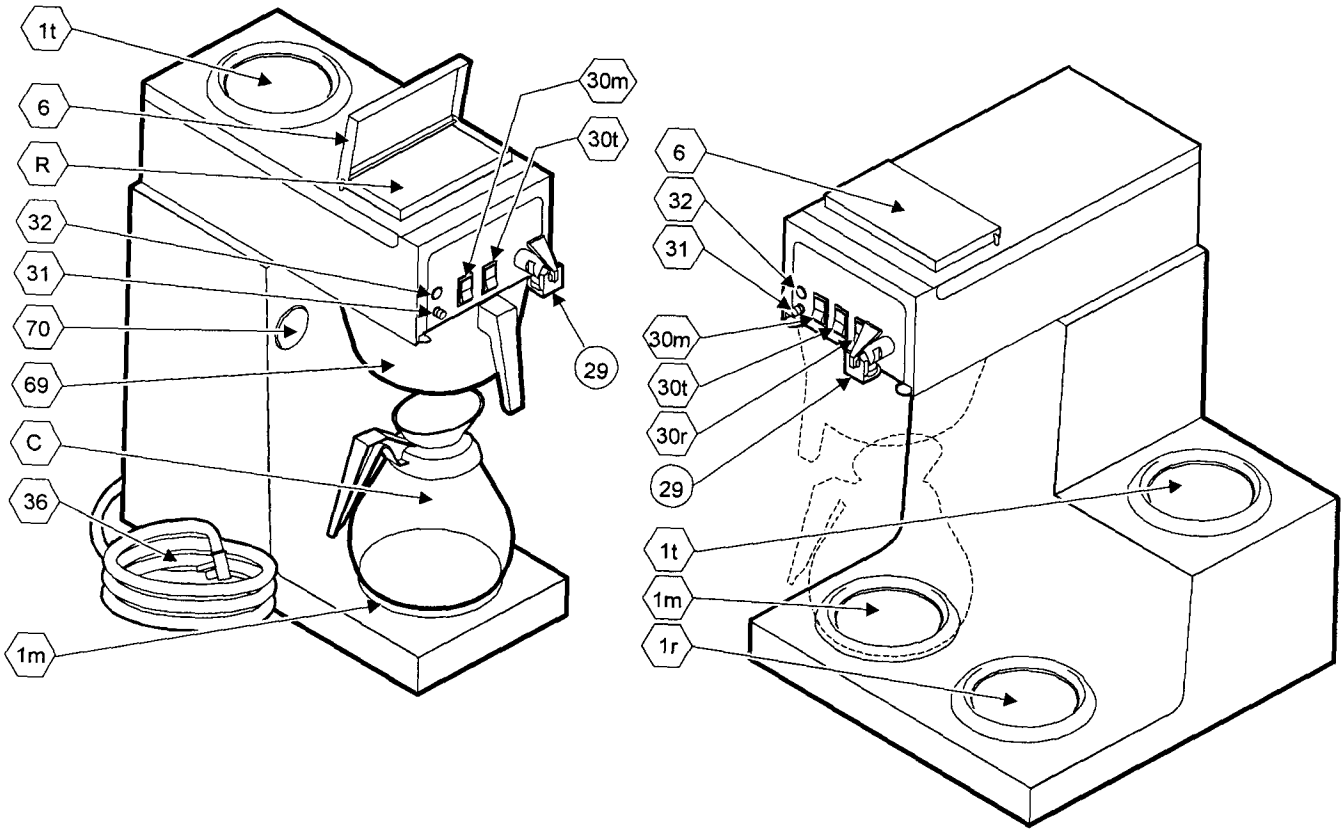
TOP VIEW

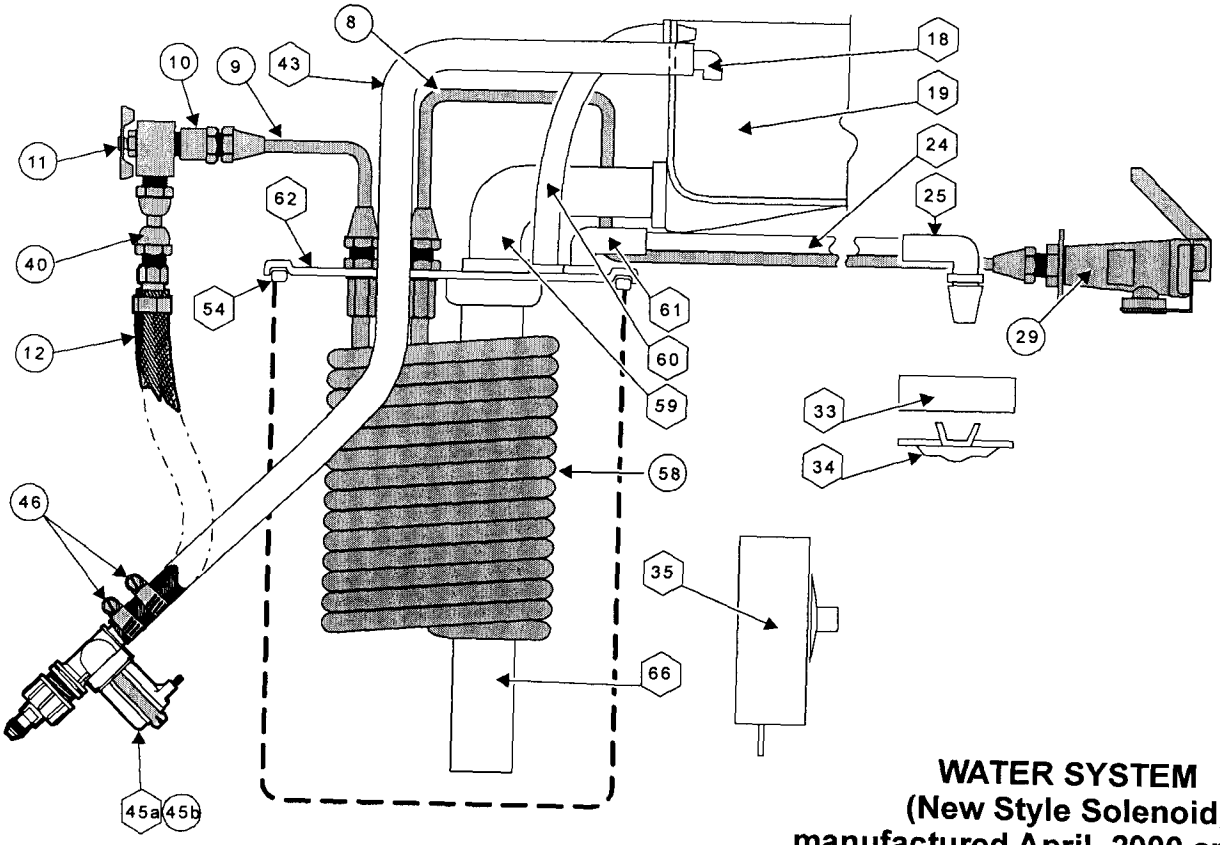
1. WARMER
   1 m. MAIN (LOWER) WARMER
   1r. RIGHT WARMER
   1t. TOP WARMER
6. RESERVOIR COVER
8. FAUCET OUTLET TUBE ASSY
9. FAUCET WATER COIL INLET TUBE ASSY
11. FAUCET SHUT-OFF VALVE
x12. FAUCET INLET TUBE ASSY
13. TANK LID HOLD-DOWN BRACKET
x15. ADAPTER BARB FITTING
18. BASIN INLET ELBOW
19. BASIN PAN
24. BREW WATER OUTLET TUBE
25. SPRAY ELBOW
29. FAUCET
30. WARMER SWITCH
    30m. MAIN (LOWER) WARMER
    30r. RIGHT WARMER
    30t. TOP WARMER
31. BREW BUTTON
32. READY TO BREW LIGHT
33. SPRAY HEAD GASKET
34. SPRAY DISK
35. TIMER ASSY
36. POWER CORD

x40. INLET FITTING
x42. FAUCET "TEE" FITTING
43. BASIN WATER INLET TUBE
x44. SOLENOID ELBOW
x45. SOLENOID ASSY & FLOW CONTROL
x46. SOLENOID ADAPTER
50. THERMOSTAT
54. WATER TANK GASKET
58. FAUCET WATER COIL
59. WATER TANK INLET ELBOW
60. VENT TUBE
61. WATER TANK OUTLET ELBOW
62. WATER TANK LID
63. HI-LIMIT THERMOSTAT
66. WATER TANK INLET TUBE
67. HEATING ELEMENT
69. BREW BASKET
70. TIMER ACCESS BUTTON PLUG
C. DECANTER (NOT PROVIDED, SHOWN FOR LOCATION ONLY)
R. RESERVOIR ACCESS (COLD WATER POURED IN HERE FOR POUR-OVER FUNCTION)

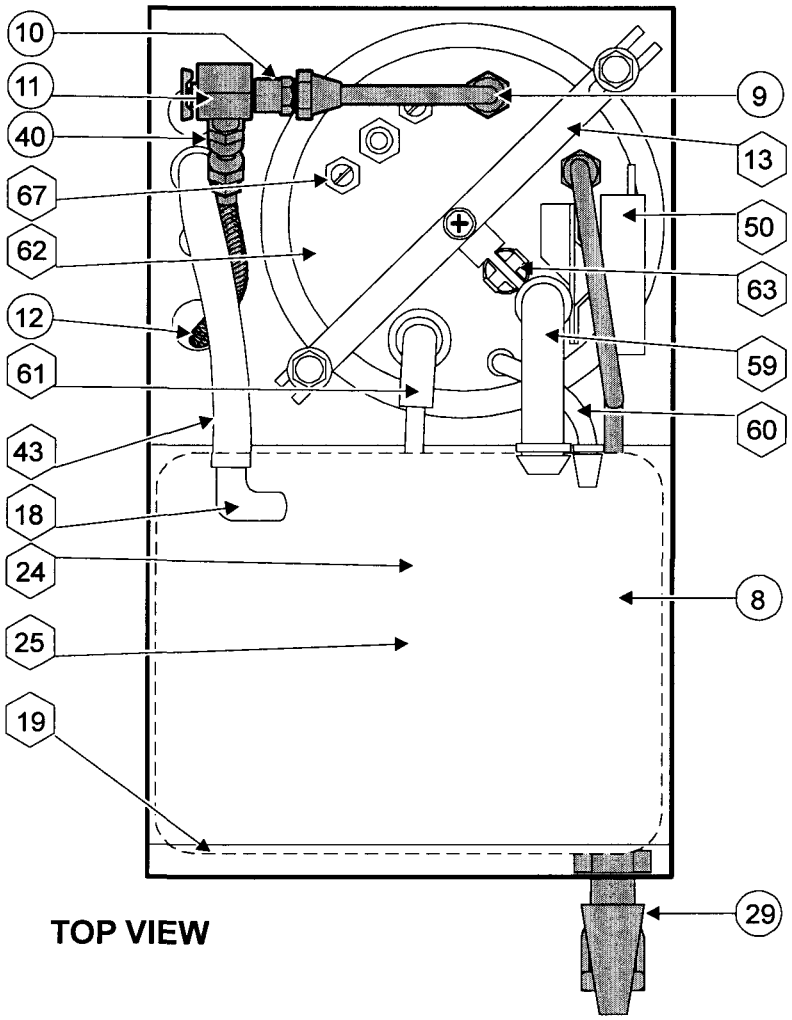
x = Brewers manufactured prior to April, 2000

OPERATING FEATURES AND CONTROLS NEW-STYLE SOLENOID





WATER SYSTEM
(New Style Solenoid, manufactured April, 2000 and later)



TOP VIEW

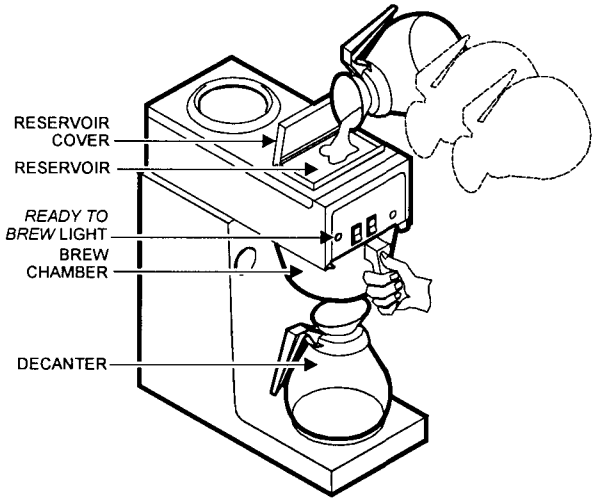
1. WARMER
   - 1 m. MAIN (LOWER) WARMER
   - 1r. RIGHT WARMER
   - 1t. TOP WARMER
6. RESERVOIR COVER
8. FAUCET OUTLET TUBE ASSY
9. FAUCET WATER COIL INLET TUBE ASSY
10. ADAPTER
11. FAUCET SHUT-OFF VALVE
12. FAUCET INLET BRAIDED HOSE ASSY
13. TANK LID HOLD-DOWN BRACKET
18. BASIN INLET ELBOW
19. BASIN PAN
24. BREW WATER OUTLET TUBE
25. SPRAY ELBOW
29. FAUCET
30. WARMER SWITCH
    - 30m. MAIN (LOWER) WARMER
    - 30r. RIGHT WARMER
    - 30t. TOP WARMER
31. BREW BUTTON
32. *READY TO BREW* LIGHT
33. SPRAY HEAD GASKET
34. SPRAY DISK
35. TIMER ASSY
36. POWER CORD
40. *¼"* x *¼"* FLARE SWIVEL NUT
43. BASIN WATER INLET TUBE
45. SOLENOID ASSY
    - 45a. SINGLE OUTLET (Non-faucet models)
    - 45b. W/ BYPASS OUTLET (Faucet models)
46. HOSE CLAMP, WORM DRIVE
50. THERMOSTAT
54. WATER TANK GASKET
58. FAUCET WATER COIL
59. WATER TANK INLET ELBOW
60. VENT TUBE
61. WATER TANK OUTLET ELBOW
62. WATER TANK LID
63. HI-LIMIT THERMOSTAT
66. WATER TANK INLET TUBE
67. HEATING ELEMENT
69. BREW BASKET
70. TIMER ACCESS BUTTON PLUG
- C. DECANTER (NOT PROVIDED, SHOWN FOR LOCATION ONLY)
- R. RESERVOIR ACCESS (COLD WATER POURED IN HERE FOR POUR-OVER FUNCTION)

INSTALLATION INSTRUCTIONS

IMPORTANT: DO NOT PLUG KOFFEE-KING™ INTO AN ELECTRICAL OUTLET OR ENERGIZE THE BREWER UNTIL THREE FULL DECANTERS OF WATER HAVE BEEN POURED INTO THE BREWER, AND UNTIL ALL INSTRUCTIONS HAVE BEEN READ AND FOLLOWED.

A. KOFFEE-KING™ POUR-OVER MODELS 8542, 8543 and 8571

1. Slide empty brew chamber in place under spray head.
2. Place empty decanter under brew chamber.
3. Open reservoir cover and pour three (3) full decanters of cold water into reservoir. Water will start flowing during the third decanter, indicating that the water tank contains the required amount of water. After water stops flowing, remove and empty decanter. Place empty decanter under brew chamber. Close reservoir cover.



IMPORTANT: Be sure three full decanters of water have been poured into the brewer before proceeding!

4. After filling, plug electric cord into 120 volt outlet capable of carrying 15 amps (1800 watts).
5. Koffee-King™ initial heating time will be approximately 18 minutes. *READY TO BREW* light will light when water has reached proper brewing temperature.
6. When *READY TO BREW* light comes on, pour a full decanter of cold water into reservoir. Hot water will start to flow immediately, indicating that the system is fully primed and ready for operation. When water stops flowing, empty the decanter. Place an empty decanter under brew chamber.
7. When *READY TO BREW* light comes on again the unit is ready to brew coffee. See *BREWING COFFEE* on page 5.

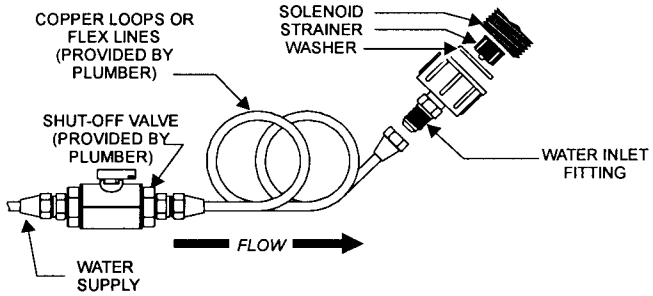
B. AUTOMATIC KOFFEE-KING™ MODELS 8540, 8541, 8572, 8573 and 8574

IMPORTANT: Water line connections must conform to all applicable codes and ordinances.

IMPORTANT: Brewer must be installed on a water line with water pressure between 20 p.s.i. and 90 p.s.i. If water pressure varies greatly or exceeds 90 p.s.i. flowing pressure, a pressure regulator must be installed. ^

MPORTANT: Flush water line before connecting to brewer. Brewer must be connected to cold water line.

1. Automatic Koffee-King™ brewers are supplied with an inlet water strainer in the (new style) solenoid.
2. For installation, use 1/4" copper tubing and appropriate 1/4" flare fittings.
3. A shut-off valve must be provided by plumber and installed in the water supply line before water line strainer. In order to minimize water line restriction, a 1/4-turn ball valve is recommended.



NOTE: NSF requests a provision be made in the water supply line for flexibility. This is necessary to allow for moving the brewer for cleaning underneath, etc. A double-coiled length of copper tubing or a 1/4" flex line in the supply line would comply with this request.

4. After water line has been flushed and connected to brewer, open shut-off valve.
5. Slide empty brew chamber in place under spray head and place empty decanter under brew chamber.
6. Open reservoir cover and pour three (3) full decanters of cold water into reservoir. Water will start flowing during the third decanter (second decanter on brewers equipped with faucet), indicating that the water tank contains the required amount of water. After water stops flowing, remove and empty decanter. Place empty decanter under brew chamber. Close reservoir cover.
7. After filling, plug in electrical cord into 120V outlet capable of carrying 15 amps (1800 watts).
8. When *READY TO BREW* light comes on again the unit is ready to brew coffee. See *BREWING COFFEE* on page 5.

C. KOFFEE-KING™ BREWER MODELS 8540, 8541, 8542,8543,8571, 8572 and 8573

IMPORTANT: DO NOT PLUG KOFFEE-KING™ INTO AN ELECTRICAL OUTLET OR ENERGIZE THE BREWER UNTIL THREE FULL DECANTERS OF WATER HAVE BEEN POURED INTO THE BREWER, AND UNTIL ALL INSTRUCTIONS HAVE BEEN READ AND FOLLOWED.

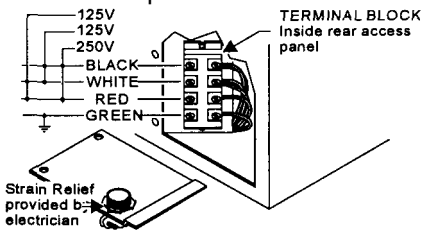
1. After filling, plug electric cord into 120 volt outlet capable of carrying 15 amps (1800 watts).
2. Koffee-King™ initial heating time will be approximately 18 minutes. *READY TO BREW* light will light when water has reached proper brewing temperature.
3. When *READY TO BREW* light comes on, Press *BREW* button. Hot water will start to flow immediately, indicating that the system if fully primed and ready for operation. When water stops flowing, empty the decanter. Place an empty decanter under brew chamber.
4. When water stops flowing you should have a full decanter (60 oz.) A water control valve and factory pre-set timer control the amount of water delivered during each brew cycle. If the amount of water is more or less than a full decanter, proceed to *TIMER ADJUSTMENT,* page 8.

D. KOFFEE-KING™ BREWER MODEL 8574

IMPORTANT: DO NOT ENERGIZE KOFFEE-KING™ UNTIL THREE FULL DECANTERS OF WATER HAVE BEEN POURED INTO THE BREWER, AND UNTIL ALL INSTRUCTIONS HAVE BEEN READ AND FOLLOWED.

IMPORTANT: For power supply, use #12 AWG wire suitable for 75°C. Use copper wire only.

1. Power cord, conduit and fittings must be provided by electrician.
2. Remove two screws from rear panel of brewer to access electrical terminal strip.
3. Connect to 230 volt or 208 volt, single phase with a separate neutral, 60 Hz. Service must be capable of 20 amps / 3850 watts.

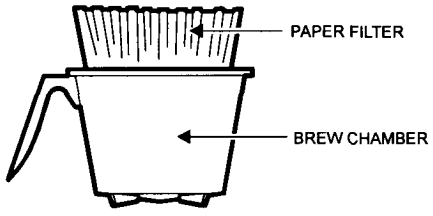


4. Once connections have been completed and access panel reinstalled, proceed as per Section C., items 3 thru 4. Initial heating time will be approximately 10 minutes.

BREWING COFFEE

1. Remove brew chamber from under spray head and place one (1) Bloomfield paper filter into brew chamber. Add a measured amount of your choice of *fine grind* coffee. Gently shake brew chamber to level coffee bed.

NOTE: If stronger or weaker coffee is desired, use either more or less coffee until desired strength of coffee is achieved, or consult your local roaster for different grinds and/or flavors.



2. Place empty decanter under brew chamber.

IMPORTANT: Always make certain there is an empty decanter under brew chamber before starting brew cycle.

6. When *READY TO BREW\\ght* turns on, Koffee-King™
3. Automatic brewers; press *BREW* button
   Pour-Over brewers; Pour one full decanter of cold water into reservoir. Close reservoir cover.
4. Hot water will start spraying over coffee grounds in brew chamber and freshly brewed coffee will begin to fill decanter. When coffee stops flowing, fresh coffee is complete.
5. When dripping stops, remove brew chamber from Koffee-King™. Discard filter and used grounds. Rinse brew chamber under a faucet.

CAUTION: BURN HAZARD
Brew chamber and contents will be hot.

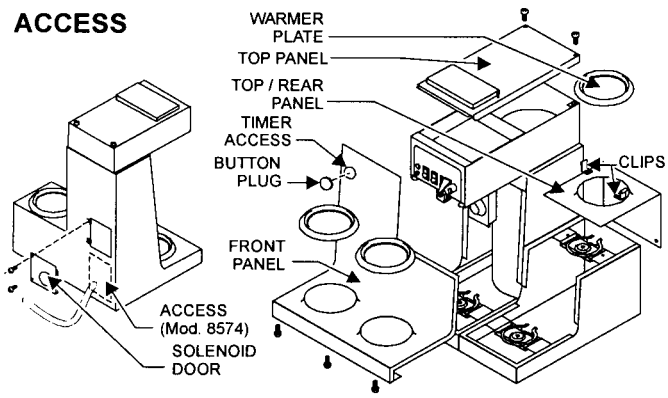
will be ready for another brew cycle.

7. Koffee-King™ brewers are equipped with electric warmers to keep your coffee warm. Each warmer is activated by a switch with indicator which lights when the switch is *ON.*

IMPORTANT:
Warmers should be turned *OFF* when not in use.
DO NOT leave an empty decanter on a warmer when it is *ON.*
DO NOT leave coffee on a warmer overnight.

SERVICING INSTRUCTIONS

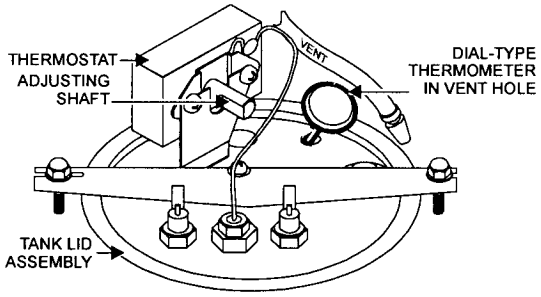
A. ACCESS



1. Front Panel (In-Line Models) and Top / Rear Panel (3-Station Models):
   a. Remove warmer plate by turning counter-clockwise until it unscrews.
   b. Remove screws from two retaining clips under warmer plate.
   c. Lift off panel.
2. Front Panel (3-Station Models):
   a. Remove warmer plates by turning counter-clockwise until they unscrew.
   b. Remove screws from two retaining clips under each warmer plate.
   c. Remove three screws from bottom-side of front lip.
   c. Pull bottom of panel forward until it clears.
3. Top Panel (All Models):
   a. Remove two screws from rear of top panel.
   b. b. Lift rear of panel, remove to rear.

B. TEMPERATURE ADJUSTMENT

1. Unplug power cord or turn circuit breaker *OFF.*
2. Remove top panel.



3. Pull vent tube out of tank lid and insert dial-type thermometer of known accuracy in vent hole.
4. Place empty decanter under brew chamber. Energize brewer and pour one decanter of cold water into reservoir. When READY TO BREW light comes on, read temperature displayed on thermometer.
5. Adjust thermostat by turning shaft; clockwise increases temperature.

NOTE: Optimum brewing temperature is 195°F (90°C). Thermostat should be adjusted so that temperature does not exceed 203°F (95°C).

C. TIMER ADJUSTMENT - KOFFEE-KING™MODELS 8540,8541,8572, 8573 and 8574

The amount of water dispensed automatically during a brew cycle is controlled by the timer.

IMPORTANT: Water pressure must be between 20 p.s.i and 90 p.s.i. flowing pressure. If water pressure exceeds this value, or if water pressure varies greatly, a pressure regulator must be installed in the water supply line.

1. Place empty decanter under brew chamber. Press BREW button. Brewer should dispense one 60 oz. decanter of water. To adjust amount:
2. Remove brew chamber and button plug.
3. Adjust knob on timer; clockwise increases time.
4. Run several cycles to check amount of water delivered. Replace button plug.

D. REMOVE TANK LID ASSEMBLY

1. Unplug brewer or turn circuit breaker *OFF.* Turn *OFF* water supply. Remove top panel.
2. Pull vent tube and inlet elbow out of basin pan.
3. On automatic models, pull water inlet tube out of basin pan.
4. Remove basin pan.
5. On models with faucet, disconnect inlet pipe at faucet shut-off valve and outlet tube at faucet.
6. Disconnect all wiring from thermostat, hi-limit, heating element and upper warmer.
7. Loosen center screw on tank hold-down bracket.
8. Remove hold-down bracket by sliding short slotted end off of locking stud and lifting it off.
9. Remove cover assembly by lifting it straight up.
10. Reassemble in reverse order.

IMPORTANT: Before setting assembly into tank, make sure tank lid gasket is properly seated on flange of lid. DO NOT OVER-TIGHTEN.

E. REPLACE THERMOSTAT

1. Unplug brewer or turn circuit breaker *OFF.* Turn *OFF* water supply. Remove top panel.
2. Disconnect all wiring from thermostat only.
3. Loosen and free jam nut from pass-thru fitting securing temperature sensing bulb.
4. Remove two screws holding thermostat to bracket. Lift out thermostat, sensing bulb and thermostat gasket.
5. Reassemble in reverse order.

IMPORTANT: When mounting thermostat, be sure a new seal washer is placed below the fitting on the capillary line. Push sensing bulb thru tank lid until fitting seats. Tighten capillary lock nut only enough to ensure no water leakage. Excessive tightening is not necessary.

F. REPLACE HEATING ELEMENT

1. Remove tank lid assembly per section D.
2. Remove two hex nuts holding element to cover. Pull element from mounting holes.
3. Reassemble in reverse order.

IMPORTANT: When replacing heating elements, also replace seal gaskets.

G. REPLACE *READY* LIGHT, WARMER SWITCH or BREW BUTTON.

1. Unplug power cord or turn circuit breaker *OFF.*
2. Using Switch Removal Tool (p/n 83209) or a thin screwdriver, pry light or switch from mounting hole. Disconnect leads.
3. Reassemble in reverse order.

H. REPLACE OLD STYLE SOLENOID

1. Unplug power cord or turn circuit breaker *OFF.*
2. Turn *OFF* and disconnect water supply.
3. Remove water connection and hex nut holding inlet fitting into back of brewer.
4. Remove two screws holding access door in place. Remove access door.
5. On faucet models, remove flare connection from "tee" inlet fitting.
6. Push solenoid forward slightly and lift to release it from bracket. Carefully pull solenoid out thru access hole.
7. Remove wiring and rubber tubing from solenoid.
8. Remove fittings from old solenoid and transfer to new solenoid.
9. If necessary, replace flow control at this time. 10. Reassemble in reverse order.

I. REPLACE NEW STYLE SOLENOID

1. Unplug power cord or turn circuit breaker *OFF.*
2. Turn *OFF* and disconnect water supply.
3. Remove two screws holding solenoid door in place. Remove access door. Remove solenoid.
4. Remove hose(s) from solenoid. Remove wiring from solenoid.
5. Reassemble in reverse order.

J. REPLACE TIMER ASSEMBLY

1. Unplug power cord or turn circuit breaker *OFF.*
2. Remove front panel. Remove knob and three screws holding timer to bracket. Disconnect wiring to timer.
3. Reassemble in reverse order.
4. Adjust timer per Section B.

K. REPLACE WARMER ELEMENT

1. Unplug power cord or turn circuit breaker *OFF.*
2. Turn warmer plate counter-clockwise until it unscrews from bracket.
3. Lift element off bracket. Disconnect leads.
4. Reassemble in reverse order.

L. CLEAN SPRAY HEAD

1. Remove brew chamber.
2. Rotate spray disk out of spray head by pushing up and rotating it out of locking grooves.
3. Clean off lime build-up and wipe oil from both sides of spray disk. Make sure all holes in spra^ disk are fully open.
4. Clean entire area over brew chamber with a damp cloth.
5. Replace spray disk, being sure spray head gasket is in place *INSIDE* cup. Spray disk tabs must be in the *UP* position. Rotate spray disk fully into locking grooves.

WATER FLOW

A. KOFFEE-KING™ POUR-OVER (ALL MODELS)

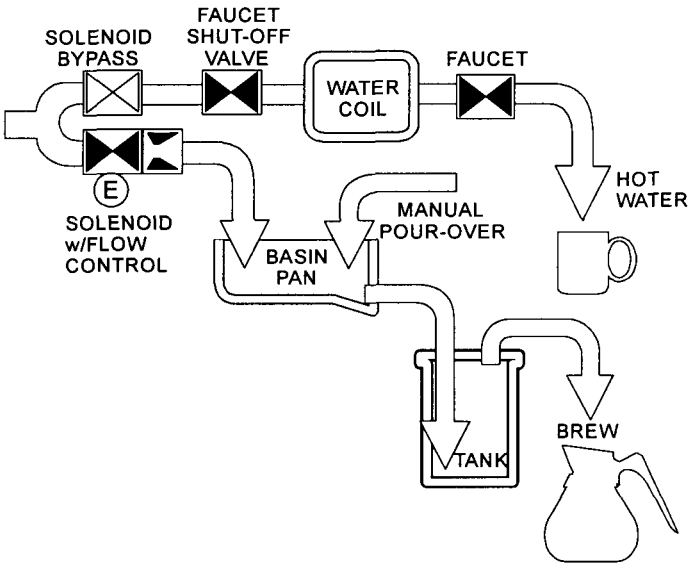
Pouring any amount of cold water into basin pan forces an identical amount of hot water out of tank and thru spray head.

B. KOFFEE-KING™ AUTOMATIC MODELS 8540, 8541, 8572, 8573 and 8574

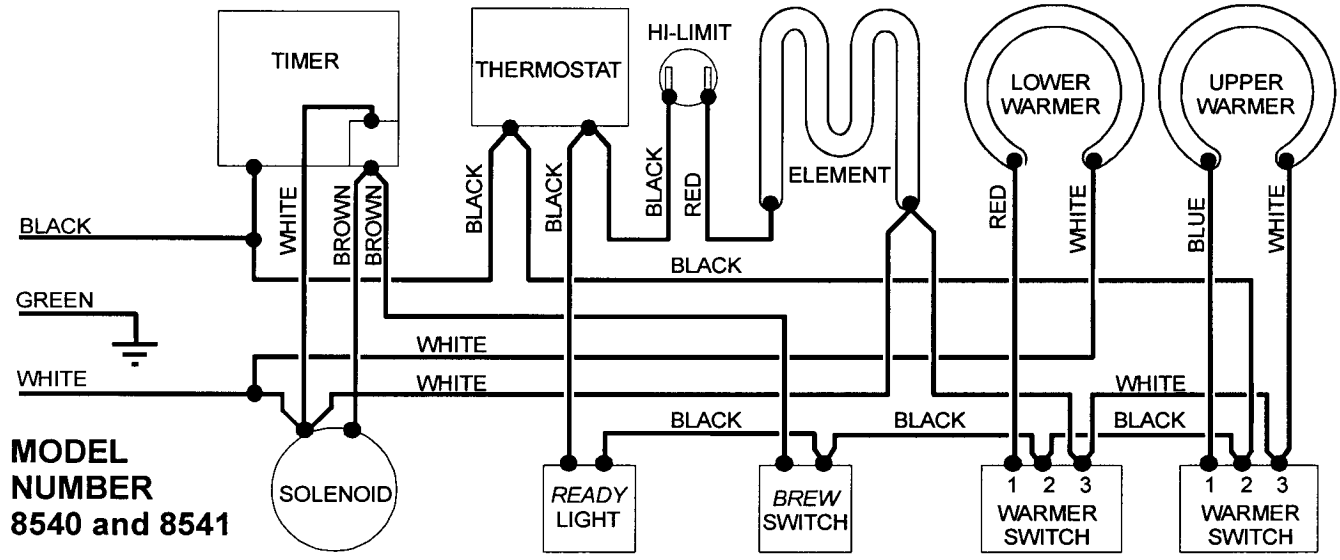
Pressing *BREW* button energizes solenoid valve, allowing water to flow into basin pan and then into hot water tank. Length of time solenoid is open is controlled by timer.

C. KOFFEE-KING™ FAUCET MODELS 8540, 8572 and 8574

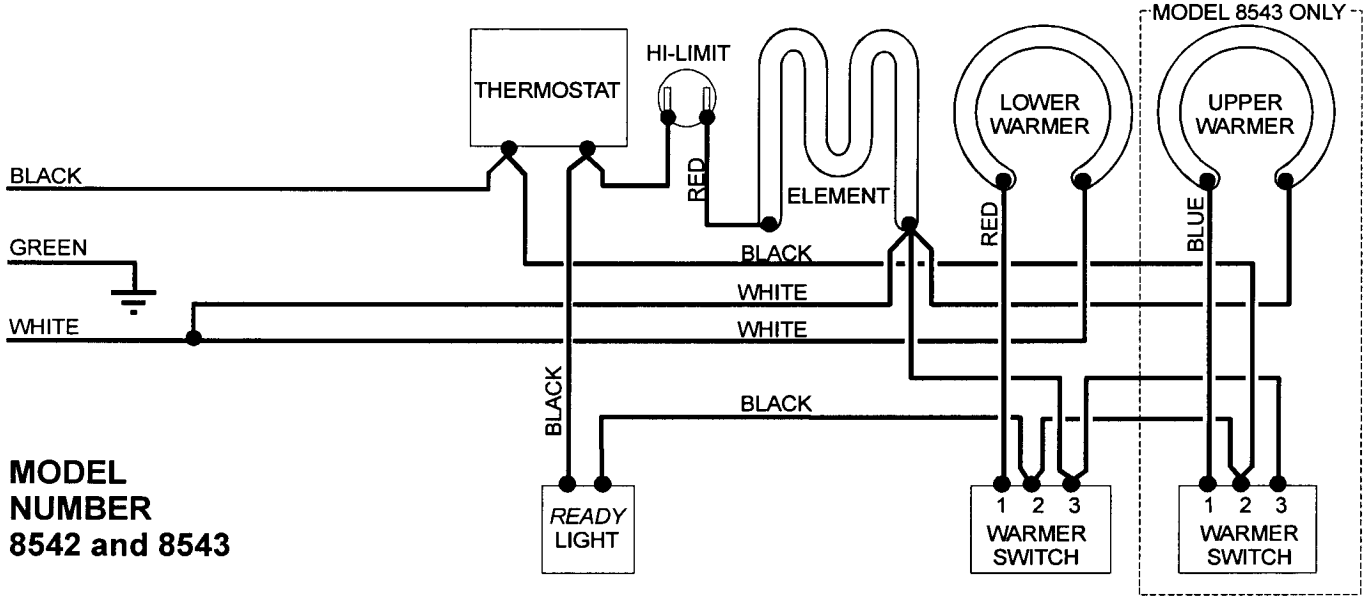
Faucet water coil is submerged in hot water tank and draws heat from brew water. Water going to water coil is not controlled by solenoid valve. Faucet is at supply water pressure any time faucet shut-off valve is *OPEN.*



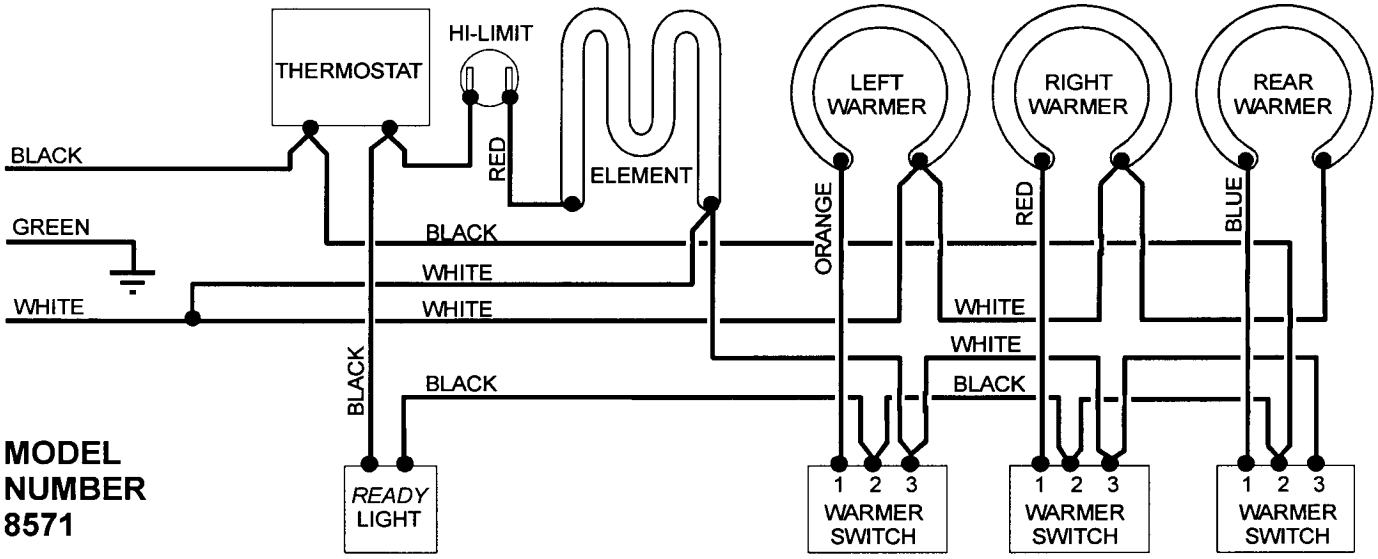
WIRING DIAGRAMS



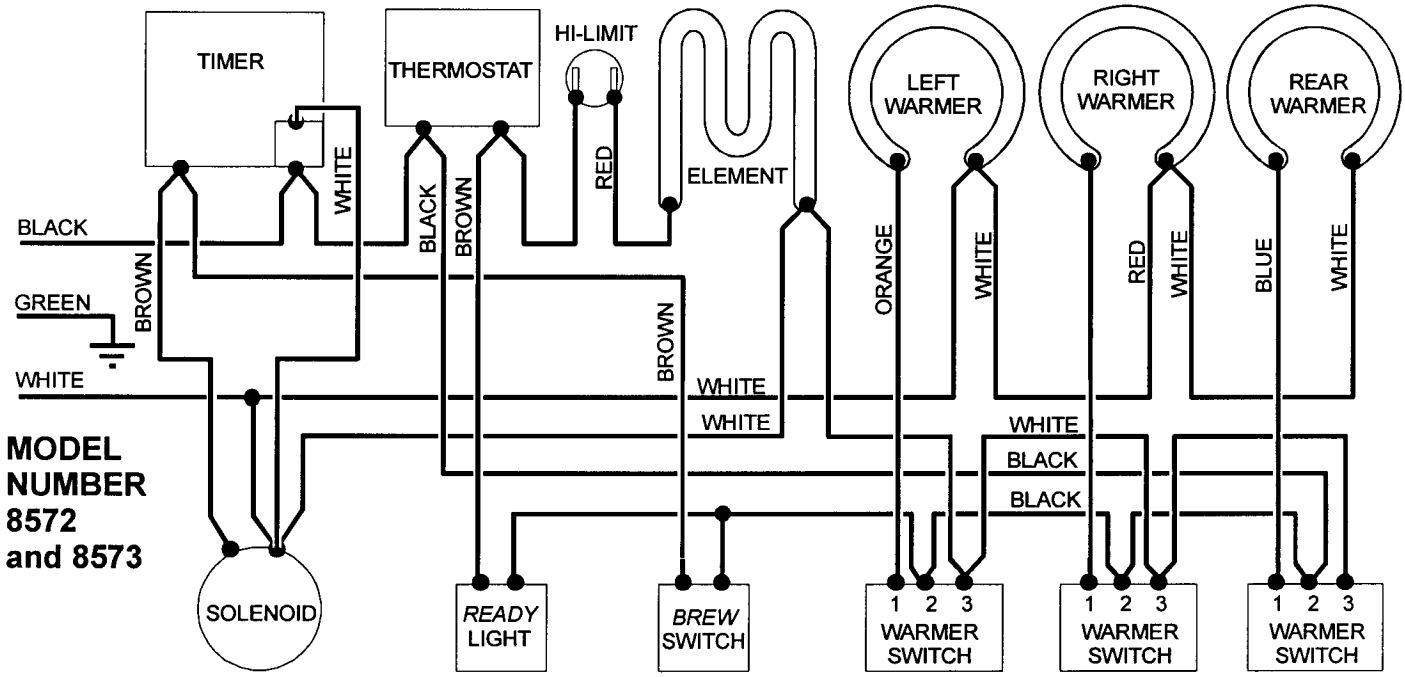
MODEL NUMBER 8540 and 8541

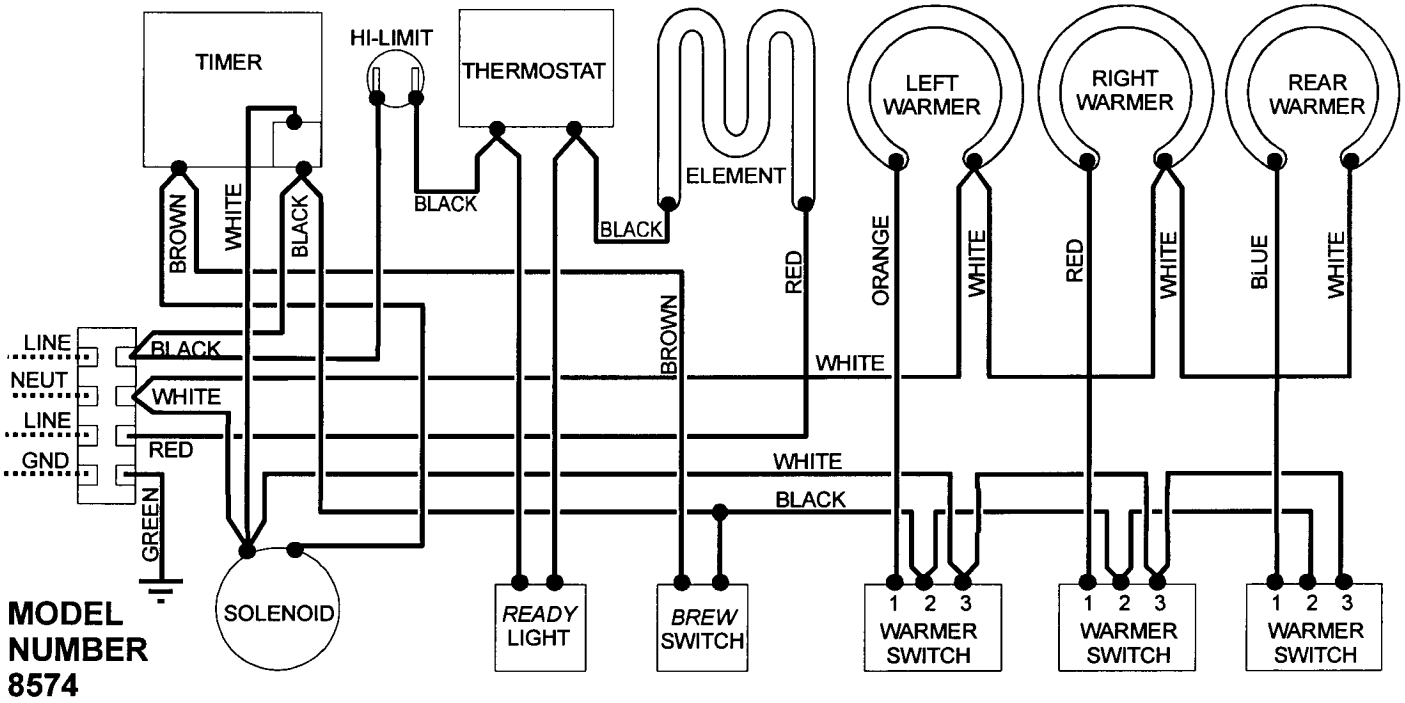


MODEL NUMBER 8542 and 8543



MODEL NUMBER 8571


TIMER
THERMOSTAT
HI-LIMIT
ELEMENT
LEFT WARMER
RIGHT WARMER
REAR WARMER
BLACK
GREEN
WHITE
BROWN
WHITE
BLACK
BROWN
RED
BROWN
ORANGE
WHITE
RED
WHITE
BLUE
WHITE
WHITE
WHITE
BLACK
BLACK
MODEL NUMBER 8572 and 8573
SOLENOID
READY LIGHT
BREW SWITCH
1 2 3 WARMER SWITCH
1 2 3 WARMER SWITCH
1 2 3 WARMER SWITCH


TIMER
HI-LIMIT
THERMOSTAT
ELEMENT
LEFT WARMER
RIGHT WARMER
REAR WARMER
BROWN
WHITE
BLACK
BLACK
BLACK
RED
ORANGE
WHITE
RED
WHITE
BLUE
WHITE
BROWN
LINE
NEUT
LINE
GND
BLACK
WHITE
RED
WHITE
WHITE
BLACK
GREEN
MODEL NUMBER 8574
SOLENOID
READY LIGHT
BREW SWITCH
1 2 3 WARMER SWITCH
1 2 3 WARMER SWITCH
1 2 3 WARMER SWITCH

TROUBLE SHOOTING

ALL MODELS

I. BREWER WILL NOT HEAT WATER

1. Check if the cord is plugged into electric outlet. Check for blown fuse or open circuit breaker.
2. Damaged cord/plug: Check cord for breaks and cuts.
3. Loose wires: Remove top and front panels and check for loose connections.
4. Temperature control thermostat set too low. Adjust for 195°F±5°F.
5. Defective temperature control thermostat: Resistance reading across thermostat terminals (unit unplugged) should be On. Replace thermostat if defective.
6. Defective Hi-Limit thermostat: Resistance reading across hi-limit terminals (unit unplugged) should be OQ. Replace hi-limit if defective.
7. Defective Heating element: Resistance reading across element terminals (unit unplugged, element at room temperature) should be 9.60. (16.5Q model 8574) Replace element if defective.

II. LOW OR HIGH WATER TEMPERATURE

1. Temperature control thermostat defective or out-of-adjustment. Adjust or replace thermostat.
2. Excessive lime deposit on tank heating element or temperature sensing bulb: Remove tank lid assembly from brewer. Use a commercially available de-liming solution to remove lime build-up. *DO NOT RUN CLEANING SOLUTION THRU BREWER.*

III. WARMER DOES NOT HEAT

1. Check if warmer switch is *ON.*
2. Check if the cord is plugged into electric outlet. Check for blown fuse or open circuit breaker.
3. Damaged cord/plug: Check cord for breaks and cuts.
4. Loose wires: Pry warmer switches out of brewer (unit unplugged) and check for loose connections.
5. Defective warmer switch: Replace switch
6. Defective warmer element: Replace element.

IV. *READY* light does not glow when water reaches brew temperature.

1. Loose wires: Pry *READY* light out of brewer (unit unplugged) and check for loose connections.
2. Defective READY light: Replace light.

V. WEAK COFFEE:

1. Insufficient amount of coffee grounds being used: Add fine grind coffee until desired taste is obtained.
2. Water temperature too low: Water temperature at brew head should be 195°F. Adjust as necessary.
3. Wrong paper filter being used: Use only genuine BLOOMFIELD filter paper.
4. Paper filter not centered in brew chamber, or coffee grounds not level in filter paper: Center filter paper and level bed of grounds.
5. Wrong grind of coffee being used: Used fine grind coffee.
6. Check that spray disk and gasket are properly in place.

VI. COFFEE TOO STRONG:

1. Too much coffee being used: Reduce amount of coffee used until desired taste is acquired.
2. More than one (1) filter paper being used: Make sure only a single paper is placed in the brew chamber.

AUTOMATIC KOFFEE-KING™ MODELS

I. NO WATER FLOW WHEN BREW BUTTON PRESSED

1. Insufficient amount of water in the system. Be sure three full decanters of cold water are added to system prior to start-up.
2. Water turned off to machine: Open water valve.
3. Water strainer plugged: Disassemble and clean strainer.
4. Low water supply pressure: Unit requires a minimum of 20 p.s.i. for operation.
5. Brewer is unplugged, or circuit breaker open.

FAUCET KOFFEE-KING™ MODELS

I. NO WATER FLOW AT FAUCET

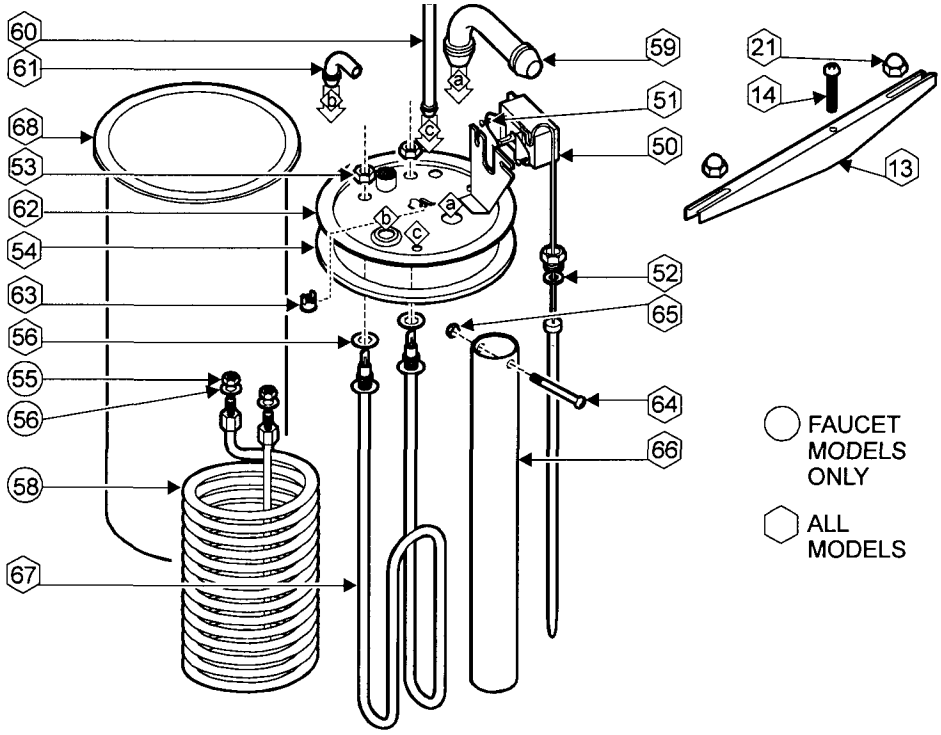
1. Water turned off to machine: open water shut-off valve.
2. Faucet shut-off valve closed: Open valve.

II. EXCESSIVE WATER FLOW AT FAUCET

1. Faucet shut-off valve open too far. This is a needle valve to control flow. Throttle valve as required for desired flow.

EXPLODED VIEWS

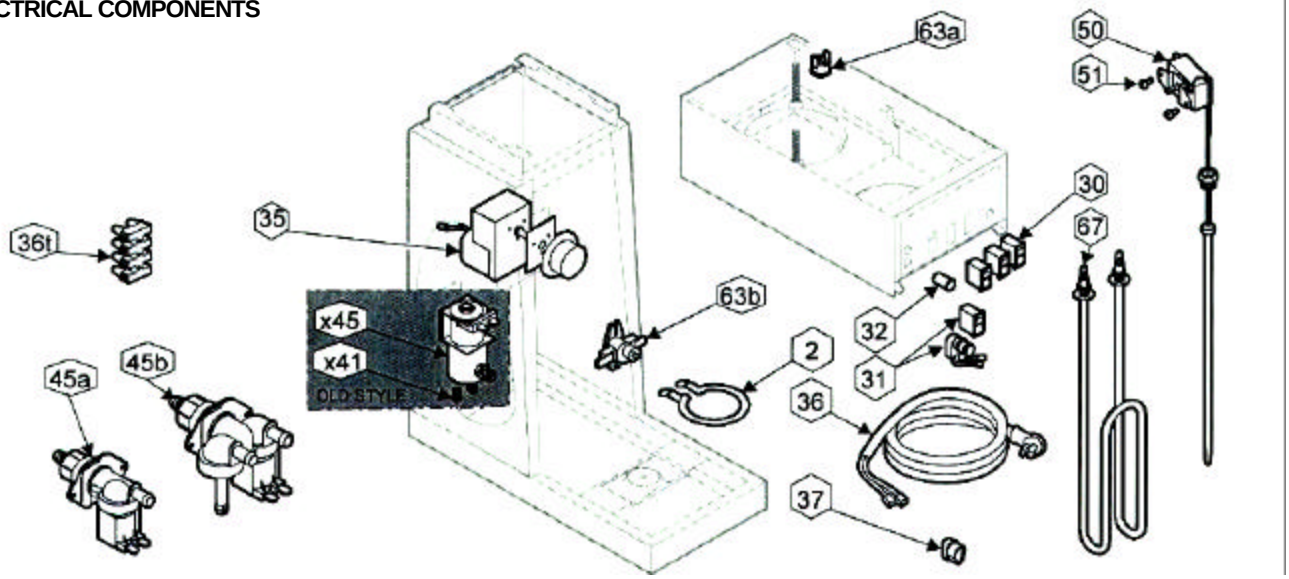
A. HOT WATER TANK ASSEMBLY



	ITEM PART NO.	DESCRIPTION	USED ON
13	8043-5	Hold Down Strap	All
14	8043-47	Phillips Head Screw, #10-32x1"	All
21	8043-506	Acorn Nut, #8-32	All
50	8512-51	Thermostat	All
51	3-100	Round Head Screw, #6-32 x 1/4"	All
52	8512-41	Seal Washer	All
53	8043-28	Hex Nut, 1/2"-20	All
54	8043-12	Tank Cover Gasket	All
55	8941-21	HexNut,7-16"-20	8540,8572, 8574
56	8043-30	Seal Gasket	8540,8572, 8574
58	8540-6	Hot Water Coil	8540,8572, 8574
59	8043-8	Inlet Elbow	All
60	8043-15	Vent Tube	All
61	8043-11	Outlet Elbow	All
62	8512-45	Tank Cover (Plate Only, 6 holes)	8541,8542, 8543 8571,8573
	8514-68	Tank Cover (Plate Only, 8-holes)	8540,8572, 8574
63	8043-83	Hi-Limit Thermostat (120V)	All, except 8574
	8552-50	Hi-Limit Thermostat (240V)	8574
64	8543-73	Pan Head Screw, #4-40x 1-1/2"	All
65	8543-74	Hex Nut, #4-40	All
66	8043-24	Water inlet Tube	All
67	8043-14	Heating Element (120V, 1500W)	All, except 8574
	8716-1	Heating Element (230V, 3500W)	8574
68	8043-10	Tank Body	All

8543-300	Spare Cover Assembly (120V, 1500 W No Coil - all parts mounted to cover)	8541,8542,8543 8571,8573	COMPLETE
8541WF-300	Spare Cover Assembly (120V, 1500W With Coil - all parts mounted to cover)	8540,8572	> SPARE TANK COVER ASSEMBLY
8716-300	Spare Cover Assembly (230V, 3800W With Coil - all parts mounted to cover)	8574	

B. ELECTRICAL COMPONENTS

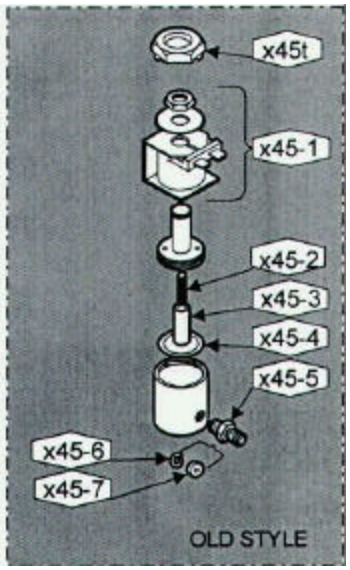


ITEM	PART NO.	DESCRIPTION	USED ON
2	8572-18	Warmer Element 120V/ 100W	All
30	6710-23	On-Off Lighted Switch	All
31	8707-55	Brew Switch, Momentary Rocker	8540,8541
	8572-24	Brew Switch, Push Button	8572,8573 & 8574
32	8718-31	Ready-To-Brew Light, green	All
36	6407-15	Cord & Cap Assembly	All, except 8574
36t	8552-18	Terminal Strip	8574
37	35-210	Strain Relief	All, except 8574
41	8541-122	Phillips Head Screw, #10 x 5/8"	8540, 8541, 8572, 8573 & 8574
x45	8541-120	Solenoid Valve (old-style)	8540, 8541, 8572, 8573 & 8574
45a	83612	Solenoid Valve (new-style, single)	8541 & 8573
45b	84455	Solenoid Valve (new style w/bypass)	8540, 8572 & 8574
50	8512-51	Thermostat	All
51	3-100	Round Head Screw, #6-32 x 1/2"	All
63a	8043-83	Hi-Limit Thermostat	All, except 8574
63b	8552-50	Hi-Limit Thermostat	8574
67	8043-14	Tank Heating Element 120V / 1500W	All, except 8574
	8716-1	Tank Heating Element 240V / 3500W	8574

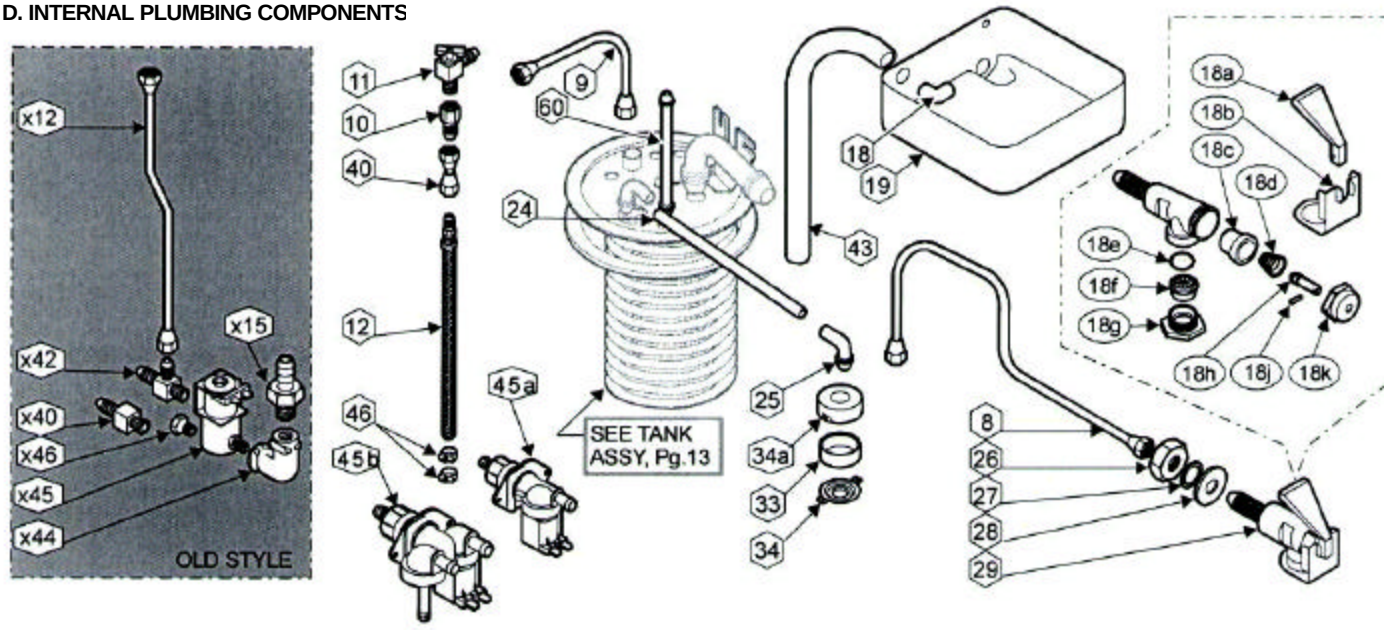
C. OLD STYLE SOLENOID REPAIR KITS

8541-120CS	Coil Assembly (item x45-1)
8541-120K	Solenoid Repair Kit (includes items x45-2 Spring, x45-3 Plunger & x45-4 Seal Ring)
8541-120JS	Solenoid Repair Kit (includes items x45-2 Spring, x45-3 Plunger & x45-4 Seal Ring plus x45t Service Wrench)
8541-120KS	Solenoid Repair Kit (includes items x45-2 Spring, x45-3 Plunger, x45d Seal Ring & x45-5 Flow Control plus x45t Service Wrench)
8541-120F	Flow Control (item x45-5 includes x45-6 Retainer Ring & x45-7 Flow Control Washer)
8541-120R	Flow Control Washer Retaining Ring (item x45-6)
8541-120FW	Flow Control Washer (item x45-7)
8541-120-WS	Service Wrench (item x45t)

x = Brewers manufactured prior to April, 2000.



D. INTERNAL PLUMBING COMPONENTS



ITEM	PART NO.	DESCRIPTION	USED ON
8	8540-3	Faucet Outlet Tube Assembly	8540,8572 & 8574
9	8540-4	Formed Inlet Tube Assembly	8540,8572 & 8574
10	8551-30	1/4" Male Flare x 1/8" FPT	8540,8572 & 8574
11	8514-26	Needle Valve (Faucet Shut-Off)	8540,8572 & 8574
x12	8572-20	Inlet Tube Assembly (old-style)	8540, 8572 & 8574
12	84461	Braided Hose (new style)	8540, 8572 & 8574
x15	8941-20	Adapter Fitting (old style)	8540,8541,8572, 8573 & 8574
18	8540-30	Elbow	8540,8541, 8572, 8573 & 8574
19	8541-21	Basin Pan (Automatic)	8540, 8541, 8572, 8573 & 8574
	8543-29	Basin Pan (Pour-Over)	8542,8543,8571
25	8043-13	Sprayer Elbow	All
26	82680	Hex Lock Nut	8540, 8572 & 8574
27	8551-100B	7/16"Lock Washer	8540,8572 & 8574
28	82681	Washer	8540,8572 & 8574
29	82556	Faucet Assembly	8540,8572 & 8574
33	8543-42	Spray Head Gasket	All
34	82727	Spray Disk	All
34a	8543-45	Spray Head Retainer	All
40	81165	Coupling, Flare Swivel, 1/4"	8540, 8572 & 8574
x40	8541-93	Inlet Fitting, Straight (old style)	8541 & 8573
x42	8551-35	Coil Inlet "Tee" Fitting (old style)	8540, 8572 & 8574
x43	8541-46	Water Inlet Tube	8540,8541,8572, 8573 & 8574
x44	8541-48A	Elbow 1/4" Male Flare x 1/4" FPT (old style)	8540, 8541, 8572, 8573 & 8574
x45	8541-120	Solenoid Valve (old style)	8540, 8541, 8572, 8573 & 8574
45a	83612	Solenoid Valve, Single (new style)	8541 & 8573
45b	84455	Solenoid Valve w/ Bypass (new style)	8540, 8572 & 8574
46	84460	Hose Clamp, Worm Drive	8540,8572 & 8574
x46	8706-102	Adapter Fitting (old style)	8540,8541,8572, 8573 & 8574
60	8043-15	Vent Tube	All
FAUCET REPAIR KITS			
	82573	Handle (item 18a)	
	82575	Seat Cup (item 18c)	
	82576	Faucet Repair Kit (Indudes 18a Handle, 18c Seat Cup, 18d Spring, 18h Stem, 18j Pin & 18k Bonnet	
	82682	Retainer Clip (item 18b)	
	84804	Aerator Replacement Kit (Includes 18e 0-Ring, 18fAerator Disk & 18g Aerator Cap	
	84870	Aerator Repair Kit (Includes 18e 0-Ring & 18fAerator Disk)	

x = Brewers manufactured prior to April, 2000.